特 許 協 力 条 約

PCT

REC'D	0	4	JAN	2005	
WIEO					

特許性に関する国際予備報告(特許協力条約第二章)

(法第12条、法施行規則第56条) [PCT36条及びPCT規則70]

出願人又は代理人 の書類記号 19N-00/07289	今後の手続きについ	ては、様式PCT/	IPEA/416を参	服すること	•
国際出願番号 PCT/JP03/16926	国際出願日 (日.月.年) 26	. 12. 2003	優先日 (日.月.年) 08.	01.20	0 3
国際特許分類 (IPC) Int. Cl' H01M8,	/04, H01M8/	00, G03B17	/02, G03B17,	/18	
出願人(氏名又は名称) 株式会社ニコン					
 この報告書は、PCT35条に基づ 法施行規則第57条 (PCT36条) この国際予備審査報告は、この表紙 	の規定に従い送付する	0.	,		
3. この報告には次の附属物件も添付さ a 附属書類は全部で	れている。 ページである	5.			
補正されて、この報告の基 囲及び/又は図面の用紙(礎とされた及び/又は PCT規則70.16及び	はこの国際予備審査様 実施細則第607号	幾関が認めた訂正を含む 参照)	p明細書、氰	青求の範
第 I 欄 4 . 及び補充欄に示 国際予備審査機関が認定し	したように、出願時に た差替え用紙	こおける国際出願の問	昇示の範囲を超えた補 正	を含むもの	りとこの
b 電子媒体は全部で 配列表に関する補充欄に示す プルを含む。(実施細則第8	ように、コンピューク 0 2 号参照)	タ読み取り可能な形3	(電子媒体の 式による配列表又は配列	種類、数を引表に関連で	示す)。 するテー
4. この国際予備審査報告は、次の内容	を含む。				•
 第 I 欄 国際予備審査 第 I 欄 優先権 第 II 欄 優先権 第 II 欄 新規性、進歩 第 V欄 PCT35条 けるためのす 第 VI欄 国際出願の不 第 VI欄 国際出願に対 	性又は産業上の利用可の欠如 の欠如 (2)に規定する新規性 献及び説明 文献 備		・予備審査報告の不作成 の利用可能性についての		れを裏付
国際予備審査の請求書を受理した日 30.06.2004	•	国際予備審査報告	を作成した日 8.12.2004 		
名称及びあて先 日本国特許庁(IPEA/J 郵便番号100-891	5	特許庁審査官(権 前田		4 X	2930
東京都千代田区霞が関三丁目	4番3号	 電話番号 03-	3581-1101	内線 34	. 7 7

第 I 欄 報告の基礎	
1. この国際予備審査報告は、下記に示す場合を除くほか、国際出題	賃の官語を基礎とした。
 □ この報告は、	~ o
2. この報告は下配の出願魯類を基礎とした。(法第6条(PCT) た差替え用紙は、この報告において「出願時」とし、この報告に添作	
× 出願時の国際出願書類	
明細書 第 ページ、出願時にま 第 ページ*、	出されたもの 付けで国際予備審査機関が受理したもの
第、 ページ*、	付けで国際予備審査機関が受理したもの
請求の範囲	A出されたもの 条の規定に基づき補正されたもの 付けで国際予備審査機関が受理したもの 付けで国際予備審査機関が受理したもの
図面 ページ/図、 出願時に挑策 第 ページ/図*、 第 ページ/図*、	と出されたもの 付けで国際予備審査機関が受理したもの 付けで国際予備審査機関が受理したもの
配列表又は関連するテーブル 配列表に関する補充欄を参照すること。	
3. 補正により、下記の書類が削除された。	·,
関 明細書開 京開 京の範囲第図面町 配列表(具体的に記載すること)配 配列表に関連するテーブル(具体的に記載すること)	ページ 項 ページ/図
4. この報告は、補充欄に示したように、この報告に添付された えてされたものと認められるので、その補正がされなかった。	
財細書 第 □ 請求の範囲 第 □ 図面 第 □ 配列表(具体的に記載すること) 配列表に関連するテーブル(具体的に記載すること)	ページ 項 ページ/図
* 4. に該当する場合、その用紙に "superseded" と記入されるこ	とがある。

1	見解
т.	兄烨

新規性 (N)

請求の範囲 請求の範囲

1 - 17

進歩性(IS)

請求の範囲 請求の範囲

4-6,13

1-3、7-12、14-17 無

産業上の利用可能性 (IA)

請求の範囲 請求の範囲

1 - 17

_____有

2. 文献及び説明 (PCT規則70.7)

文献1: JP 2000-67896 A (ゼネラル・モーターズ・コーポレーション) 20 00.03.03 【特許請求の範囲】、【図1】

& EP 0982788 A2

文献2: JP 2002-20101 A (本田技研工業株式会社) 2002. 01. 23 【0008】、【0019】、【図2】

文献3: JP 2002-373684 A (ヤマハ発動機株式会社) 2002. 12. 26 【0081】、【0102】、【0148】、【0158】

文献4: JP 2002-81331 A (トヨタ自動車株式会社) 2002. 03. 22 【請求項5】、【0027】

文献5: JP 2001-273915 A (大阪瓦斯株式会社) 2001.10.05 【特許請求の範囲】、【0020】、【0026】、【0047】

文献6: JP 2002-56852 A (ソニー株式会社) 2002. 02. 22 【請求項4】、【0047】、【図1】

文献7: JP 3-276576 A (富士電機株式会社) 1991.12.06 特許請求 の範囲、第1-2図

請求の範囲1-2、9

請求の範囲1-2、9に記載された発明は、国際調査報告で引用した文献1-5により進歩性を有しない。

文献1には、電圧検出手段を備える燃料電池を電源に使用する電子機器において、電圧検出 手段に基づいて燃料電池の状態を判定し、その判定した状態を表示することが開示されてい る。また、文献2-5に開示されているように、当該技術分野においては、燃料残量の検出手 段を備えることや酸化剤濃度の検出手段を備えることは周知の技術事項である。

請求の範囲3

請求の範囲3に記載された発明は、文献1-5により進歩性を有しない。

文献1記載の発明において、状態を表示する箇所は、当業者が適宜決定し得た設計事項に過ぎない。

補充概

いずれかの欄の大きさが足りない場合

第 V.2. 欄の続き

請求の範囲7

請求の範囲7に記載された発明は、文献1-5により進歩性を有しない。 文献2-3には、燃料残量の不足を知らせることが開示されている。

請求の範囲8

請求の範囲8に記載された発明は、文献1-5により進歩性を有しない。

文献1記載の発明において、状態を表示する箇所は、当業者が適宜決定し得た設計事項に過ぎない。

請求の範囲10-12、14

請求の範囲10-12、14に記載された発明は、文献1-5により進歩性を有しない。 文献5には、酸化剤濃度検出手段の判定に基づいて酸化剤を補給することが開示されている。

請求の範囲15-17・

請求の範囲15-17に記載された発明は、文献1-5及び国際調査報告で引用した文献6-7により進歩性を有しない。

文献 6-7 に開示されているように、酸素透過膜を介して酸化剤を供給することは、当該技術分野では周知の技術事項である。

請求の範囲4-6、13

請求の範囲4-6、13に記載された発明は、国際調査報告で引用したいずれの文献に対しても新規性及び進歩性を有する。

いずれの文献にも、請求の範囲4-6、13に記載された発明は開示も示唆もされておらず、当業者と言えども容易に着想し得たとは認められない。

Translation

PATENT COOPERATION TREATY

PCT/JP2003/016926 539778

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	(
Applicant's or agent's file reference 19N-00/07289	FOR FURTHER A	CTION	See Form PCT/IPEA/416	
International application No. PCT/JP2003/016926	International filing da	te (day/month/year) 03 (26.12.2003)	Priority date (day/month/year) 08 January 2003 (08.01.2003)	
International Patent Classification (IPC) or n H01M 8/04, 8/00, G03B 17/02, 1	ational classification ar		00 January 2003 (00.01.2003)	
Applicant	NIKON COR	PORATION		
This report is the international prelin Authority under Article 35 and trans	ninary examination rep mitted to the applicant	ort, established by this according to Article 36	International Preliminary Examining 5.	
2. This REPORT consists of a total of		-	heet.	
3. This report is also accompanied by A				
a. (sent to the applicant and	to the International Bu	reau) a total of	sheets, as follows:	
sheets of the descr and/or sheets cont Administrative Ins	aining rectifications au	rawings which have be thorized by this Autho	een amended and are the basis of this report ority (see Rule 70.16 and Section 607 of the	
sheets which supe beyond the disclo Supplemental Box	sure in the internations	nt which this Authority Il application as filed,	considers contain an amendment that goes as indicated in item 4 of Box No. I and the	
	, contai	ning a sequence listin	pe and number of electronic carrier(s)) g and/or tables related thereto, in computer o Sequence Listing (see Section 802 of the	
4. This report contains indications relat	ing to the following ite	ms:		
Box No. I Basis of the re	port			
Box No. II Priority				
Box No. III Non-establishr	The state of the s			
Box No. IV Lack of unity of	of invention			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain docum	•			
Box No. VII Certain defects	s in the international ap	plication		
Box No. VIII Certain observ	ations on the internatio	nal application		
Date of submission of the demand		Date of completion o	of this report	
30 June 2004 (30.06.2	004)	08 De	cember 2004 (08.12.2004)	
Name and mailing address of the IPEA/JP		Authorized officer		
Facsimile No.		Telephone No.		

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/JP2003/016926

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. This report is based on translations from the original language into the following language	Box No. I	Basis of the report
which is language of a translation furnished for the purpose of: International search (under Rules 12.3 and 23.1(b) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3) 2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): The international application as originally filed/furnished the description:		
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* If item 4 applies, some or all of those sheets may be marked "superseded."		
	* If item A	applies, some or all of those sheets may be marked "superseded "

International application No.

PCT/JP03/16926

Statement Novelty (N)	Claims	1-17	YE
	Claims		NO
Inventive step (IS)	Claims	4-6, 13	YE
	Claims	1-3, 7-12, 14-17	NO
Industrial applicability (IA)	Claims	1-17	YE
	Claims		NO
Citations and explanations (Rule 7	0.7)		

Document 4: JP, 2002-81331, A (Toyota Motor Corp.), 22 March, 2002 (22.03.02), claim 5, [0027]

Document 5: JP, 2001-273915, A (Osaka Gas Co., Ltd.), 5 October, 2001 (05.10.01), the claims, [0020], [0026] and [0047]

Document 3: 2002-373684, A (Yamaha Motor Corp.), 26 December, 2002 (26.12.02), [0081], [0102], [0148]

Document 6: JP, 2002-56852, A (Sony Corp.), 22 February, 2002 (22.02.02), claim 4, [0047], Fig. 1

Document 7: JP, 3-276576, A (Fuji Electric Co., Ltd.), 6 December, 1991 (06.12.91), the claims, Figs. 1 and 2

Claims 1, 2 and 9

The subject matters of claims 1, 2 and 9 do not appear to involve an inventive step in view of documents 1-5 cited in the ISR.

Document 1 discloses that, in an electronic apparatus using fuel cells with a voltage detecting means as a power supply, the state of the fuel cells is determined based on the voltage detecting means and the state determined is indicated. As disclosed in documents 2-5, a feature wherein a means of detecting the amount of remaining fuel is provided, and a feature wherein a means of detecting the concentration of an oxidizing agent, are both well-known technical matters.

Claim 3

The subject matter of claim 3 does not appear to involve an inventive step in view of documents 1-5.

The part of indicating the state would be a matter of design variation that a person skilled in the art could have easily decided, in the invention described in document 1, as required.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/JP03/16926

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: V

Claim 7

The subject matter of claim 7 does not appear to involve an inventive step in view of documents 1-5. Documents 2 and 3 disclose that the shortage of remaining fuel is informed.

Claim 8

The subject matter of claim 8 does not appear to involve an inventive step in view of documents 1-5.

The part of indicating the state would be a matter of design variation that a person skilled in the art could have easily decided, in the invention described in document 1, as required.

Claims 10-12 and 14

The subject matters of claims 10-12 and 14 do not appear to involve an inventive step in view of documents 1-5.

Document 5 discloses that an oxidizing agent is replenished based on the determination by a means of detecting the concentration of an oxidizing agent.

Claims 15-17

The subject matters of claims 15-17 do not appear to involve an inventive step in view of documents 1-5, and documents 6 and 7 cited in the ISR.

As disclosed in documents 6 and 7, a feature wherein an oxidizing agent is supplied via an oxygen transmission membrane is a well-known technical matter in the relevant technical field.

Claims 4-6 and 13

The subject matters of claims 4-6 and 13 appear to be novel and to involve an inventive step over all the documents cited in the ISR.

None of the documents discloses or suggests the subject matters of claims 4-6 and 13, and even a person skilled in the art could not have easily conceived of them.